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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Joel D. OXMAN et al. Group Art Unit: 1614
Serial No.: 10/626,261 Examiner: Unassigned
Confirmation No.: 9585
Filed: July 24, 2003 Docket No.: 56464US003
Title: HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

We are transmitting the following documents along with this Transmittal Sheet (which is submitted in triplicate):

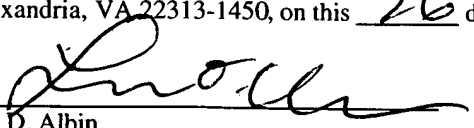
- ☒ An itemized return postcard.
- ☐ A Petition for Extension of Time for __ month(s) and a check in the amount of \$__ for the required fee.
- ☒ An Information Disclosure Statement (2 pgs); copies of 2 applications; 1449 forms (4 pgs); and copies of 24 documents cited on the 1449 forms.
- ☐ A check in the amount of \$__, for __.
- ☐ A certified copy of a __ application, Serial No. __, filed ____, the right of priority of which is claimed under 35 U.S.C. §119.
- ☒ Other: copy of the International Search Report (5 pgs).
- ☐ Amendment ☐ No Additional fee is required. ☐ The fee has been calculated as shown:

| Fee Calculation for Claims Pending After Amendment | | | | | |
|---|------------------------------------|-----------------------------|-----------------------------------|---------------------------|--------------------------|
| | Pending Claims after Amendment (1) | Claims Paid for Earlier (2) | Number of Additional Claims (1-2) | Cost per Additional Claim | Additional Fees Required |
| Total Claims | | | | x \$18 = | |
| Independent Claims | | | | x \$86 = | |
| One or More New Multiple Dependent Claims Presented? If Yes, Add \$290 Here → | | | | | |
| Total Additional Claim Fees Required | | | | | |

Please consider this a PETITION FOR EXTENSION OF TIME for a sufficient number of months to enter these papers and please charge any additional fees or credit overpayment to Deposit Account No. 13-4895. Triplicate copies of this sheet are enclosed.

CERTIFICATE UNDER 37 C.F.R. §1.8: The undersigned hereby certifies that this Transmittal Letter and the paper(s), as described hereinabove, are being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26 day of July, 2004.

MUETING, RAASCH & GEBHARDT, P.A.

By: 
Loren D. Albin
Reg. No.: 37,763
Direct Dial: 612-305-1225
Facsimile: 612-305-1228

(LARGE ENTITY TRANSMITTAL UNDER RULE 1.8)

**INFORMATION
DISCLOSURE
STATEMENT**

Atty. Docket No.: 56464US003

Serial No.: 10/626,261

Applicant(s): OXMAN et al.

Confirmation No.: 9585

Application Filing Date: 24 July 2003

Group: 1614

Information Disclosure Statement mailed:

July 26, 2004

U.S. PATENT DOCUMENTS

| Examiner Initial | Copy Enclosed | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
|------------------|---------------|-----------------|----------|-------------------|-------|----------|----------------------------|
| | | 3,786,116 | 01/15/74 | Milkovich et al. | | | |
| | | 3,842,059 | 10/15/74 | Milkovich et al. | | | |
| | | 4,071,424 | 01/31/78 | Dart et al. | | | |
| | | 4,693,935 | 09/15/87 | Mazurek | | | |
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| | | 5,410,016 | 04/25/95 | Hubbell et al. | | | |
| | | 5,429,826 | 07/04/95 | Nair et al. | | | |
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| | | 5,888,491 | 03/30/99 | Mitra et al. | | | |
| | | 5,942,209 | 08/24/99 | Leavitt et al. | | | |
| | | 5,976,648 | 11/02/99 | Li et al. | | | |

EXAMINER**Date Considered**

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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| INFORMATION DISCLOSURE STATEMENT | Atty. Docket No.: 56464US003 | Serial No.: 10/626,261 |
| | Applicant(s): OXMAN et al. | Confirmation No.: 9585 |
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| Examiner Initial | Copy Enclosed | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
|------------------|---------------|-----------------|----------|----------------|-------|----------|----------------------------|
| | | 6,018,033 | 01/25/00 | Chen et al. | | | |
| | | 6,030,634 | 02/29/00 | Wu et al. | | | |
| | | 6,060,582 | 05/09/00 | Hubbell et al. | | | |
| | | 6,121,341 | 09/19/00 | Sawhney et al. | | | |
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| | Application Filing Date: 24 July 2003 | Group: 1614 |
| | Information Disclosure Statement mailed: <i>July 26, 2004</i> | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Copy Enclosed | Document Number | Date | Country | Class | Subclass | Translation | |
|---------------------|------------------|------------------------|----------|--|-------|----------|-------------|----|
| | | | | | | | Yes | No |
| | X | EP 0 173 567 A2 | 03/05/86 | EPO | | | | |
| | X | EP 1 004 293 A2, A3 | 05/31/00 | EPO | | | | |
| | X | EP 1 266 570 A1 | 12/18/02 | EPO | | | | |
| | X | GB 2 229 443 A | 09/26/90 | Great Britain | | | | |
| | X | JP 3 101 714 | 10/23/00 | Japan (English Language Abstract Only) | | | | |
| | X | JP 2000319304 | 11/21/00 | Japan (English Language Abstract Only) | | | | |
| | X | WO 93/17669 A1 | 09/16/93 | WIPO | | | | |
| | X | WO 93/23009 A1 | 11/25/93 | WIPO | | | | |
| | X | WO 95/24430 A2, A3 | 09/14/95 | WIPO | | | | |
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| | X | WO 00/28946 A1 | 05/25/00 | WIPO | | | | |
| | X | WO 00/44800 A1 | 08/03/00 | WIPO | | | | |
| | X | WO 01/17574 A1 | 03/15/01 | WIPO | | | | |
| | X | WO 01/30873 A1 | 05/03/01 | WIPO | | | | |

OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

| Examiner Initial | Copy Enclosed | Document Description |
|---------------------|------------------|--|
| | X | Hoffman et al., "Thermally Reversible Hydrogels: II. Delivery and Selective Removal of Substances From Aqueous Solutions," <i>Journal of Controlled Release</i> , 4, Elsevier Science Publishers, Amsterdam, pp. 213-222 (1986). |

EXAMINER**Date Considered**

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PATENT
Docket No. 56464US003

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| Serial No.: | 10/626,261 |) | Examiner: | Unassigned |
| Confirmation No.: | 9585 |) | | |
| | |) | | |
| Filed: | July 24, 2003 |) | | |
| | |) | | |
| For: | <u>HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS</u> | | | |

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with C.F.R. §§ 1.97 *et. seq.*, the materials enclosed herewith are brought to the attention of the Examiner as possibly being of interest in connection with the above-identified patent application. Per M.P.E.P. § 609, the information cited in the present Information Disclosure Statement shall not be construed to be an admission that the information is, or is considered to be, material to patentability. Consideration of each of the documents listed on the attached 1449 forms is respectfully requested. **As this patent application was filed after June 30, 2003, copies of the U.S. patents and U.S. patent application publications listed on the attached 1449 forms have not been submitted.** Pursuant to the provisions of M.P.E.P. §609, Applicants further request that a copy of the 1449 forms, marked as being considered and initialed by the Examiner, be returned with the next Official Communication.

Applicants wish to bring the Examiner's attention to the International Search Report (ISR, copy enclosed herewith). The documents cited in the ISR are listed on the attached 1449 form.

Applicants also wish to bring the Examiner's attention to the following pending U.S. Applications, as well as any documents and any provisional U.S. patent applications referenced therein. A copy of each of the below-listed pending U.S. Patent Applications is provided herewith.

Information Disclosure Statement

Applicant(s): Joel D. OXMAN et al.

Serial No.: 10/626,261

Confirmation No.: 9585

Filed: July 24, 2003

For: HARDENABLE THERMALLY RESPONSIVE COMPOSITIONS

Page 2 of 2

List of Pending Non-Published U.S. Patent Applications

| Applicant(s) | Application Number | Filing Date | Serial No. of Provisional Application to which listed Application claims priority |
|--------------|--------------------|-------------|---|
| Ali et al. | 10/626,341 | 07/24/03 | 60/444,200 |
| Mitra et al. | 10/626,142 | 07/24/03 | 60/444,039 |

It is believed that no fee is due, as this Information Disclosure Statement is filed prior to the receipt of any Action on the merits. However, in the event a fee is due, please charge any fee or credit any overpayment to Account No. 13-4895.

The Examiner is invited to contact Applicants' Representatives at the below-listed telephone number, if they can be of any assistance during prosecution of the present application.

CERTIFICATE UNDER 37 C.F.R. 1.8:

The undersigned hereby certifies that this paper is being deposited in the United States Postal Service, as first class mail, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 26 day of July, 2004.

Signature: Loren D. Albin

Name: Loren D. Albin

Date

July 26, 2004

Respectfully submitted for

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By

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OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

| Examiner Initial | Copy Enclosed | Document Description |
|------------------|---------------|---|
| | X | Kawakami et al., "Silicone Macromers for Graft Polymer Synthesis," <i>Polymer Journal</i> , Vol. 14, No. 11, pp. 913-917 (1982). |
| | X | Kawakami et al., "Synthesis and Copolymerization of Polysiloxane Macromers," <i>ACS Polymer Preprints</i> 25(1), pp. 245-246 (1984). |
| | X | Kawakami et al., "Synthesis of silicone graft polymers and a study of their surface active properties," <i>Makromol. Chem.</i> , 185, pp. 9-18 (1984). |
| | X | Lee et al., "pH-Thermoreversible Hydrogels. I. Synthesis and Swelling Behaviors of the (N-isopropylacrylamide-co-acrylamide-co-2-hydroxyethyl methacrylate) Copolymeric Hydrogels," <i>Journal of Applied Polymer Science</i> , Vol. 71, John Wiley and Sons, Inc., pp. 221-231 (1999). |
| | X | Lee et al., "Thermoreversible Hydrogels. XII. Effect of the Polymerization Conditions on the Swelling Behavior of the N-Isopropylacrylamide," <i>Journal of Applied Polymer Science</i> , Vol. 78, John Wiley and Sons, Inc., pp. 1604-1611 (2000). |
| | X | Lee et al., "Thermoreversible Hydrogels. XIV. Synthesis and Swelling Behavior of the (N-isopropylacrylamide-co-2-Hydroxyethyl methacrylate) Copolymeric Hydrogels," <i>Journal of Applied Polymer Science</i> , Vol. 77, John Wiley and Sons, Inc., pp. 1769-1781 (2000). |
| | X | Nathoo et al., "Comparative 3-Week Clinical Tooth-Shade Evaluation of a Novel Liquid Whitening Gel Containing 18% Carbamide Peroxide and a Commercially Available Whitening Dentrifrice," <i>A Supplement to Compendium of Continuing Education in Dentistry</i> , Vol. 23, No. 11 (Suppl. 1), Title page, letter from the editor, and pp. 12-17 (8 pp. total) (November 2002). |
| | X | Senel et al., "Thermoresponsive Isopropylacrylamide-Vinylpyrrolidone Copolymer by Radiation Polymerization," <i>Journal of Applied Polymer Science</i> , Vol. 64, John Wiley and Sons, Inc., pp. 1775-1784 (1997). |

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